

WHAT IS CLAIMED IS:

- 1 1. A method for moving teeth, comprising:
2 moving a first tooth; and
3 moving a second tooth while isolating the first tooth at a rest position.
- 1 2. The method of claim 1, wherein the second tooth is moved for a first duration and
2 immobilized for a second duration.
- 1 3. The method of claim 1, wherein the duration is on an hourly basis, a daily basis, or
2 a weekly basis.
- 1 4. The method of claim 1, comprising generating a plurality of appliances based on
2 the moving of the tooth, wherein the appliances comprise polymeric shells having
3 cavities and wherein the cavities of successive shells have different geometries shaped to
4 receive and resiliently reposition the teeth from one arrangement to a successive
5 arrangement.
- 1 5. The method of claim 4, wherein a first cavity isolates the first tooth at the rest
2 position.
- 1 6. The method of claim 4, wherein a second cavity urges the second tooth to one of
2 the successive position.
- 1 7. The method of claim 4, wherein a second cavity urges the second tooth to one of
2 the successive position.
- 1 8. The method of claim 4, further comprising replacing an appliance on an intra-day
2 basis.

- 1 9. The method of claim 4, further comprising replacing an appliance on a daily
2 basis.
- 1 10. The method of claim 4, further comprising replacing an appliance on a multi-day
2 basis.
- 1 11. The method of claim 4, further comprising replacing an appliance on an intra-
2 week basis.
- 1 12. The method of claim 4, further comprising replacing an appliance on a weekly
2 basis.
- 1 13. The method of claim 1, further comprising:
2 moving a first group of teeth; and
3 moving a second group of teeth while isolating the first group of teeth at a rest position.
- 1 14. The method of claim 13, wherein each group comprises contiguous teeth.
- 1 15. The method of claim 13, wherein each group comprises non-contiguous teeth.
- 1 16. A system, comprising:
2 means for moving a first tooth; and
3 means for moving a second tooth while isolating the first tooth at a rest position.
- 1 17. The system of claim 16, wherein the second tooth is moved for a first duration and
2 immobilized for a second duration.

1 18. The system of claim 16, wherein the duration is on an hourly basis, a daily basis,
2 or a weekly basis.

1 19. The system of claim 16, comprising fabrication machine to generate a plurality of
2 appliances, wherein the appliances comprise polymeric shells having cavities and
3 wherein the cavities of successive shells have different geometries shaped to receive and
4 resiliently reposition the teeth from one arrangement to a successive arrangement.

1 20. The system of claim 19, wherein a first cavity isolates the first tooth at the rest
2 position and wherein a second cavity urges the second tooth to a successive arrangement.

1 21. A system for generating one or more appliances for a patient includes a processor;
2 a display device coupled to the processor; a data storage device coupled to the processor;
3 a scanner coupled to the processor for providing data to model the patient's masticatory
4 system; means for moving a first tooth; means for moving a second tooth while isolating
5 the first tooth at a rest position; and a dental appliance fabrication machine coupled to the
6 processor for generating the appliances in accordance with the moved tooth and the
7 isolated tooth.